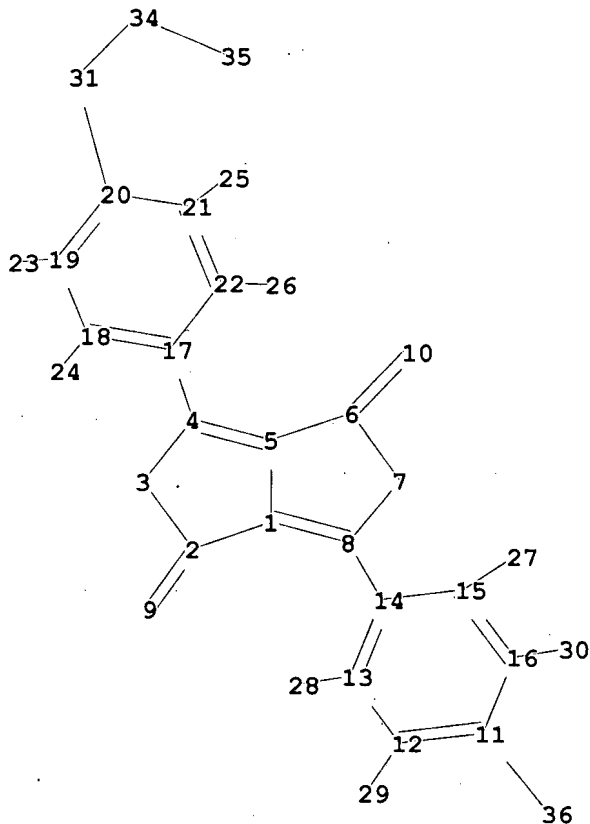
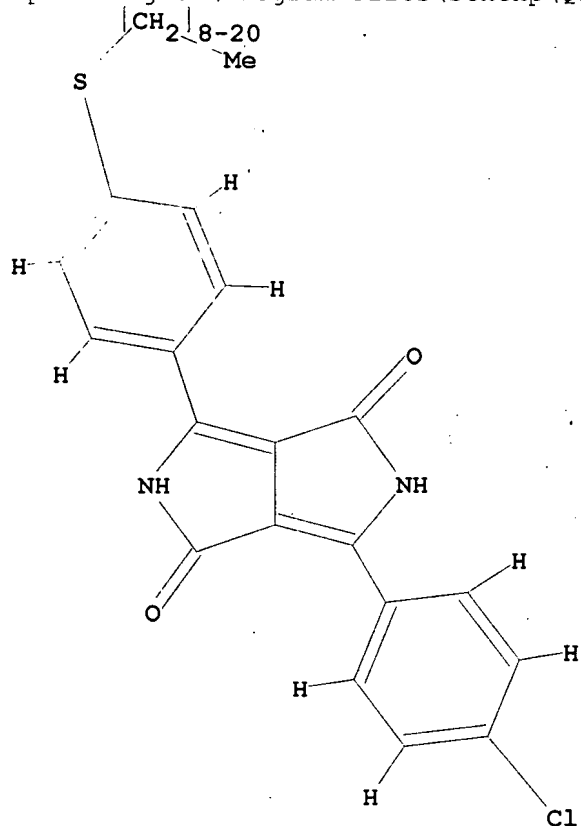


Uploading C:\Program Files\Stnexp\Queries\10 series\10576703\CORRECTION3.str



chain nodes :

9 10 23 24 25 26 27 28 29 30 31 34 35 36

ring nodes :

1 2 3 4 5 6 7 8 11 12 13 14 15 16 17 18 19 20 21 22

chain bonds :

2-9 4-17 6-10 8-14 11-36 12-29 13-28 15-27 16-30 18-24 19-23 20-31 21-25
22-26 31-34 34-35

ring bonds :

1-2 1-5 1-8 2-3 3-4 4-5 5-6 6-7 7-8 11-12 11-16 12-13 13-14 14-15 15-16
17-18 17-22 18-19 19-20 20-21 21-22

exact/norm bonds :

1-2 1-5 1-8 2-3 2-9 3-4 4-5 5-6 6-7 6-10 7-8 20-31

exact bonds :

4-17 8-14 11-36 12-29 13-28 15-27 16-30 18-24 19-23 21-25 22-26 31-34
34-35

normalized bonds :

11-12 11-16 12-13 13-14 14-15 15-16 17-18 17-22 18-19 19-20 20-21 21-22

G1:X,CH3,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:CLASS 10:CLASS
 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom
 21:Atom
 22:Atom 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS 30:CLASS
 31:CLASS
 34:CLASS 35:CLASS 36:CLASS

L10 STRUCTURE UPLOADED

=> s l10 full

FULL SEARCH INITIATED 11:02:52 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 66 TO ITERATE

100.0% PROCESSED 66 ITERATIONS

2 ANSWERS

SEARCH TIME: 00.00.01

L11 2 SEA SSS FUL L10

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

172.10

864.35

FILE 'CAPLUS' ENTERED AT 11:02:55 ON 16 JUL 2007

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FILE COVERS 1907 - 16 Jul 2007 VOL 147 ISS 4

FILE LAST UPDATED: 15 Jul 2007 (20070715/ED)

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=> s l11

L12 1 L11

=> d ibib hitstr 1

L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:395400 CAPLUS <<LOGINID::20070716>>

DOCUMENT NUMBER: 142:412928

TITLE: Heat-stable diketopyrrolopyrrole pigment mixtures for cosmetics

INVENTOR(S): Wallquist, Olof; Lenz, Roman; Feiler, Leonhard; Dueggeli, Mathias; Yousaf, Taher; De Keyzer, Gerardus

PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.

SOURCE: PCT Int. Appl., 54 pp.

CODEN: PIXXD2

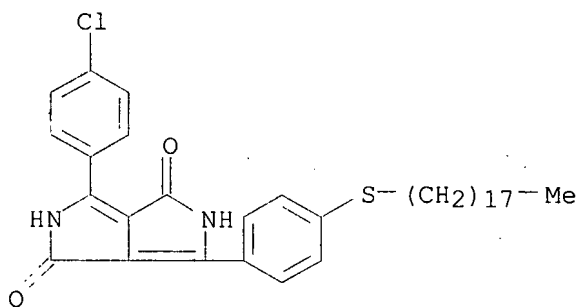
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

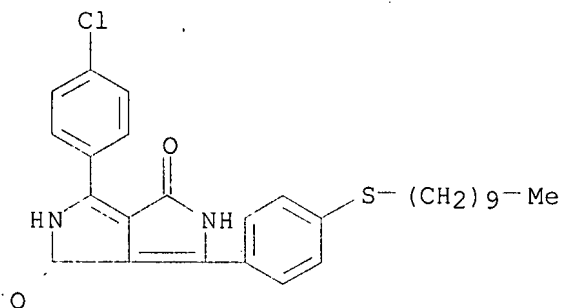
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005040284	A1	20050506	WO 2004-EP52426	20041004
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004284235	A1	20050506	AU 2004-284235	20041004
CA 2542519	A1	20050506	CA 2004-2542519	20041004
EP 1675916	A1	20060705	EP 2004-791138	20041004
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
CN 1871309	A	20061129	CN 2004-80031296	20041004
BR 2004015831	A	20070102	BR 2004-15831	20041004
JP 2007514798	T	20070607	JP 2006-536078	20041004
US 2007028807	A1	20070208	US 2006-576703	20060419
IN 2006CN01381	A	20070706	IN 2006-CN1381	20060421
PRIORITY APPLN. INFO.:			CH 2003-1817	A 20031023
			WO 2004-EP52426	W 20041004
OTHER SOURCE(S):	MARPAT 142:412928			
IT 850566-77-7P				
RL: COS (Cosmetic use); IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); BIOL (Biological study); PREP (Preparation); USES (Usés)				
(dark red pigment; production of heat-stable diketopyrrolopyrrole pigment mixts. for cosmetics)				
RN 850566-77-7 CAPLUS				
CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 3-(4-chlorophenyl)-2,5-dihydro-6-[4-(octadecylthio)phenyl]- (9CI) (CA INDEX NAME)				



IT 850566-80-2P
 RL: COS (Cosmetic use); IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (red pigment; production of heat-stable diketopyrrolopyrrole pigment mixts. for cosmetics)
 RN 850566-80-2 CAPLUS

CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 3-(4-chlorophenyl)-6-[4-(decylthio)phenyl]-2,5-dihydro- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

4.09

868.44

FILE 'REGISTRY' ENTERED AT 11:03:12 ON 16 JUL 2007

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 15 JUL 2007 HIGHEST RN 942400-66-0

DICTIONARY FILE UPDATES: 15 JUL 2007 HIGHEST RN 942400-66-0

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TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

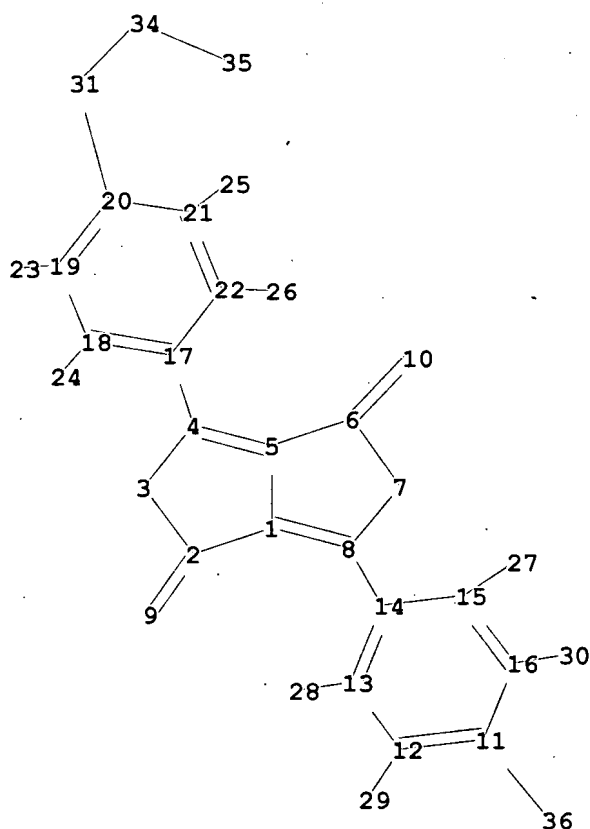
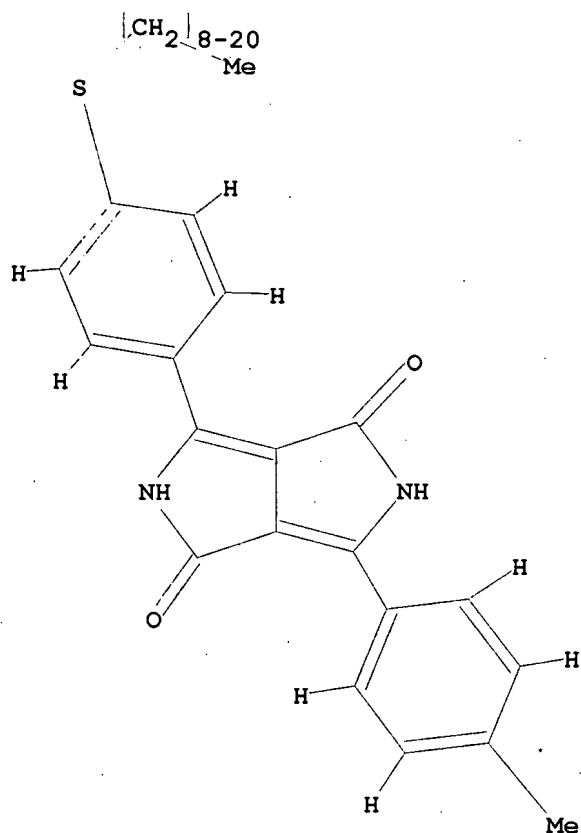
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

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chain nodes :

9 10 23 24 25 26 27 28 29 30 31 34 35 36

ring nodes :

1 2 3 4 5 6 7 8 11 12 13 14 15 16 17 18 19 20 21 22

chain bonds :

2-9 4-17 6-10 8-14 11-36 12-29 13-28 15-27 16-30 18-24 19-23 20-31 21-25
22-26 31-34 34-35

ring bonds :

1-2 1-5 1-8 2-3 3-4 4-5 5-6 6-7 7-8 11-12 11-16 12-13 13-14 14-15 15-16
17-18 17-22 18-19 19-20 20-21 21-22

exact/norm bonds :

1-2 1-5 1-8 2-3 2-9 3-4 4-5 5-6 6-7 6-10 7-8 20-31

exact bonds :

4-17 8-14 11-36 12-29 13-28 15-27 16-30 18-24 19-23 21-25 22-26 31-34
34-35

normalized bonds :

11-12 11-16 12-13 13-14 14-15 15-16 17-18 17-22 18-19 19-20 20-21 21-22

G1:X,CH3,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:CLASS 10:CLASS
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom
21:Atom
22:Atom 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS 30:CLASS
31:CLASS
34:CLASS 35:CLASS 36:CLASS

L13 STRUCTURE UPLOADED

=> s l13 full

FULL SEARCH INITIATED 11:03:33 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 66 TO ITERATE

100.0% PROCESSED 66 ITERATIONS

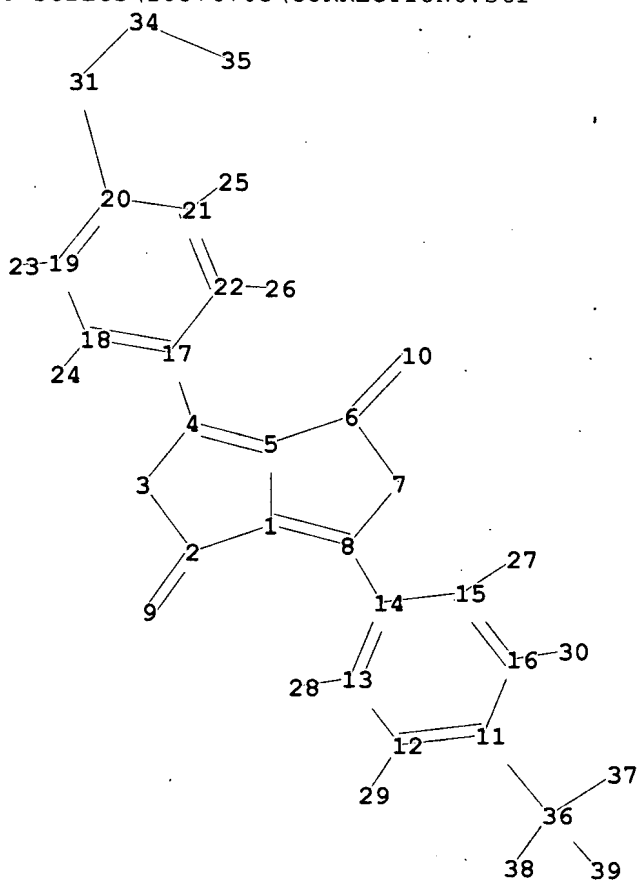
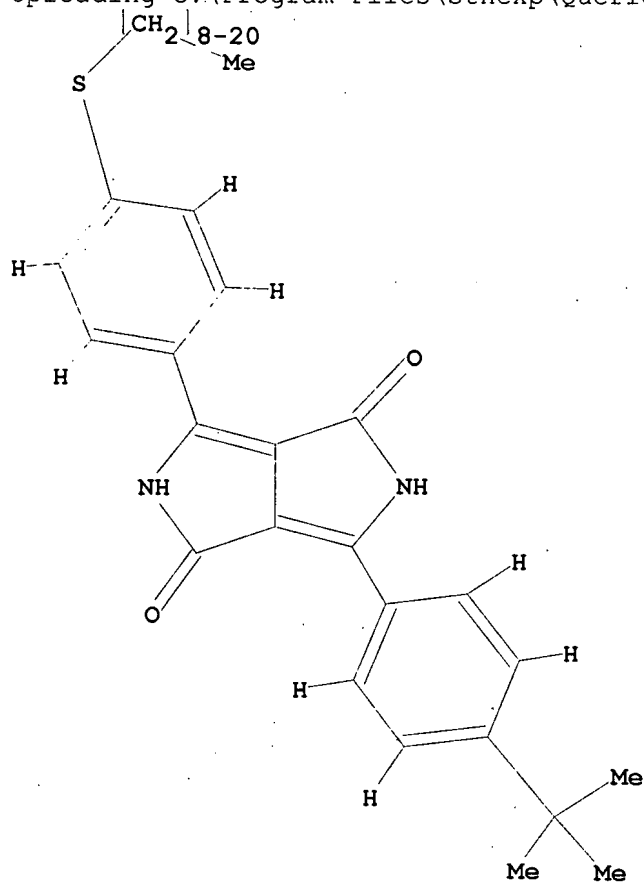
2 ANSWERS

SEARCH TIME: 00.00.01

L14 2 SEA SSS FUL L13

=>

Uploading C:\Program Files\Stnexp\Queries\10 series\10576703\CORRECTION6.str



chain nodes :

9 10 23 24 25 26 27 28 29 30 31 34 35 36 37 38 39

ring nodes :

1 2 3 4 5 6 7 8 11 12 13 14 15 16 17 18 19 20 21 22

chain bonds :

2-9 4-17 6-10 8-14 11-36 12-29 13-28 15-27 16-30 18-24 19-23 20-31 21-25
22-26 31-34 34-35 36-37 36-38 36-39

ring bonds :

1-2 1-5 1-8 2-3 3-4 4-5 5-6 6-7 7-8 11-12 11-16 12-13 13-14 14-15 15-16
17-18 17-22 18-19 19-20 20-21 21-22

exact/norm bonds :

1-2 1-5 1-8 2-3 2-9 3-4 4-5 5-6 6-7 6-10 7-8 20-31

exact bonds :

4-17 8-14 11-36 12-29 13-28 15-27 16-30 18-24 19-23 21-25 22-26 31-34

10/576,703 REACTION SEARCH.

34-35 36-37 36-38 36-39

normalized bonds :

11-12 11-16 12-13 13-14 14-15 15-16 17-18 17-22 18-19 19-20 20-21. 21-22

G1:X,CH3,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:CLASS 10:CLASS

11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom
21:Atom

22:Atom 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS 30:CLASS

31:CLASS

34:CLASS 35:CLASS 36:CLASS 37:CLASS 38:CLASS 39:CLASS

L15 STRUCTURE UPLOADED

=> s l15 full

FULL SEARCH INITIATED 11:03:52 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 151 TO ITERATE

100.0% PROCESSED 151 ITERATIONS

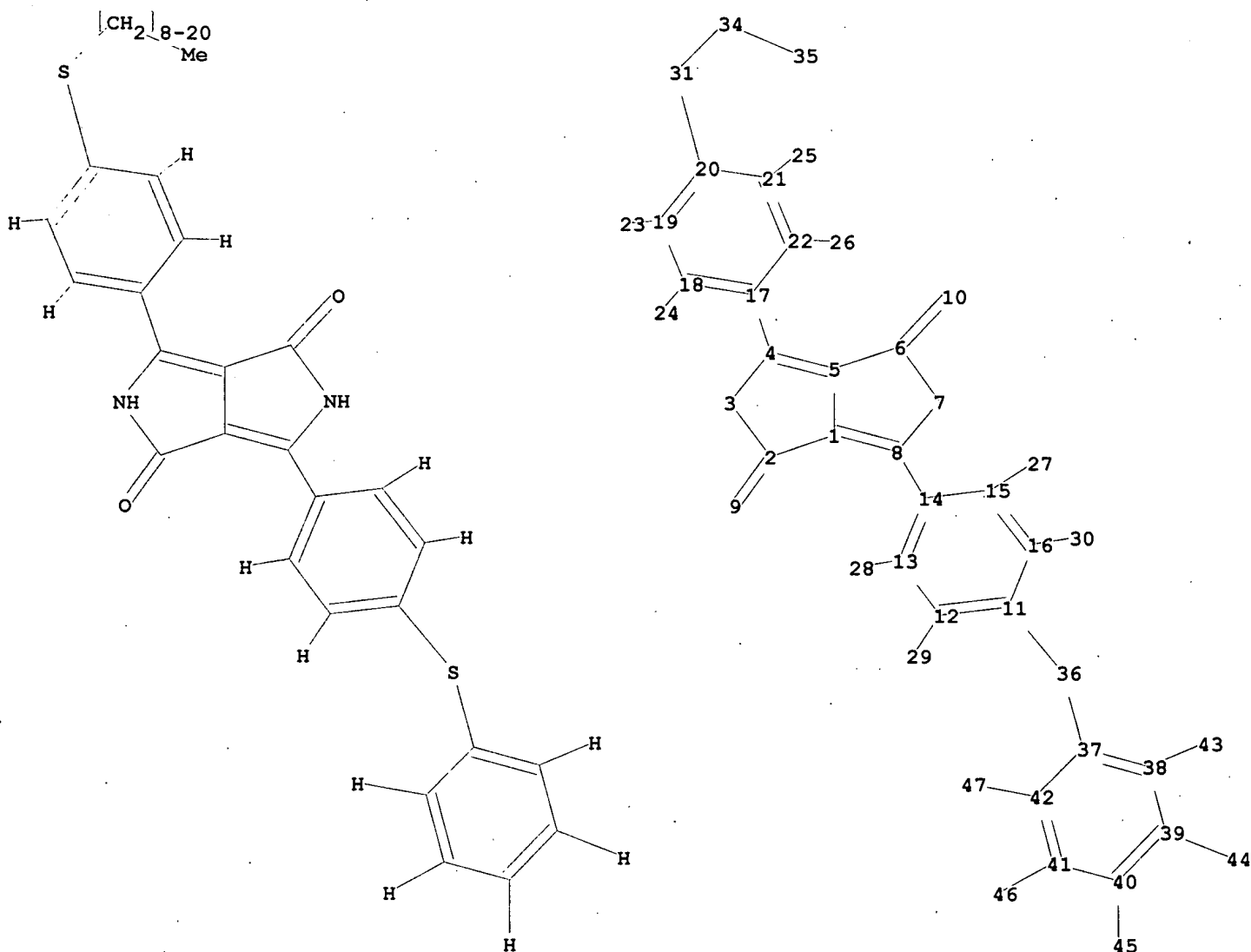
1 ANSWERS

SEARCH TIME: 00.00.01

L16 1 SEA SSS FUL L15

=>

Uploading C:\Program Files\Stnexp\Queries\10 series\10576703\CORRECTION7.str



chain nodes :

9 10 23 24 25 26 27 28 29 30 31 34 35 36 43 44 45 46 47

ring nodes :

1 2 3 4 5 6 7 8 11 12 13 14 15 16 17 18 19 20 21 22 37 38 39
40 41 42

chain bonds :

2-9 4-17 6-10 8-14 11-36 12-29 13-28 15-27 16-30 18-24 19-23 20-31 21-25
22-26 31-34 34-35 36-37 38-43 39-44 40-45 41-46 42-47

ring bonds :

1-2 1-5 1-8 2-3 3-4 4-5 5-6 6-7 7-8 11-12 11-16 12-13 13-14 14-15 15-16
17-18 17-22 18-19 19-20 20-21 21-22 37-38 37-42 38-39 39-40 40-41 41-42

exact/norm bonds :

1-2 1-5 1-8 2-3 2-9 3-4 4-5 5-6 6-7 6-10 7-8 11-36 20-31 36-37

exact bonds :

4-17 8-14 12-29 13-28 15-27 16-30 18-24 19-23 21-25 22-26 31-34 34-35
38-43 39-44 40-45 41-46 42-47

normalized bonds :

11-12 11-16 12-13 13-14 14-15 15-16 17-18 17-22 18-19 19-20 20-21 21-22
37-38 37-42 38-39 39-40 40-41 41-42

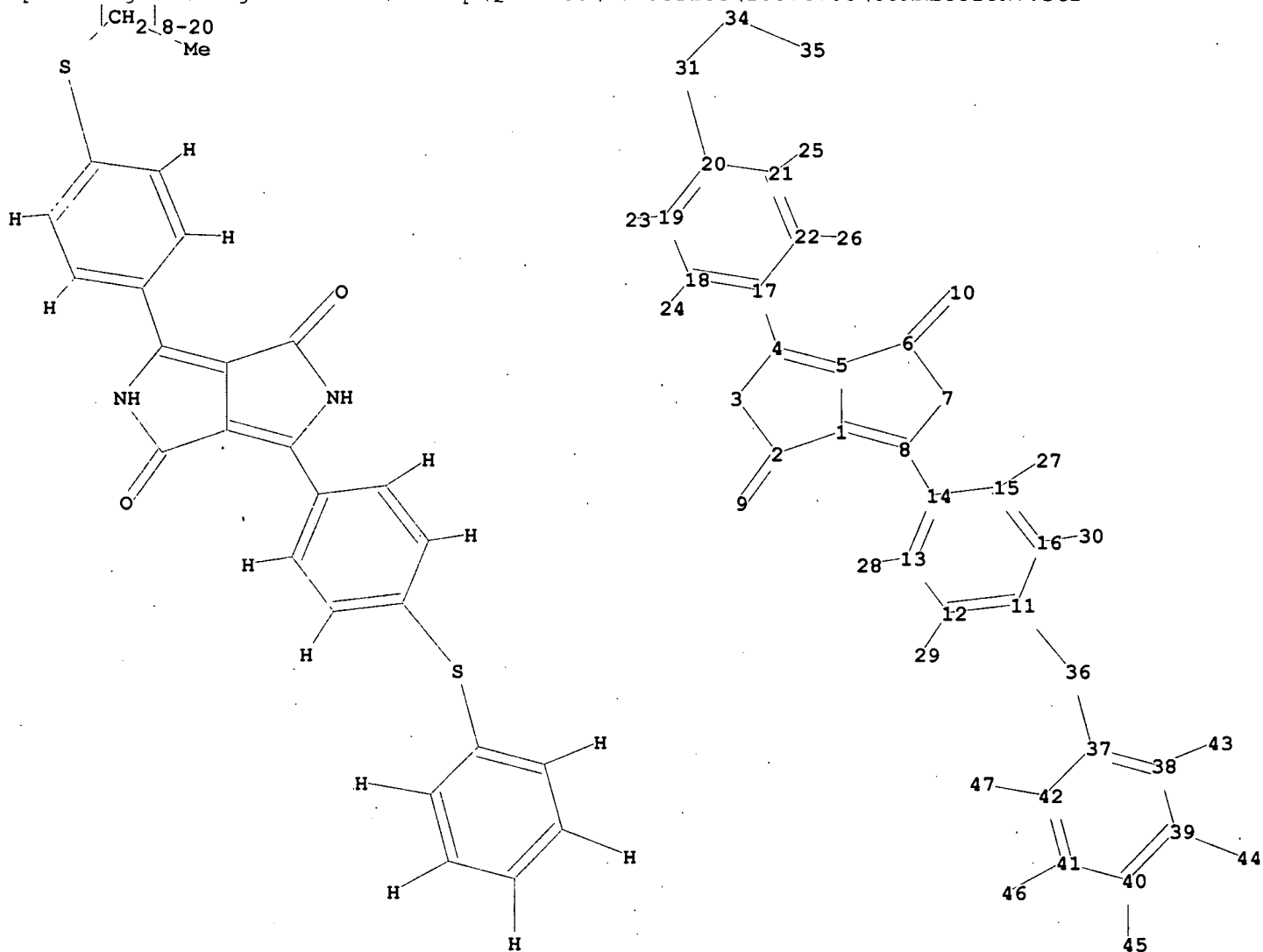
G1:X,CH3,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:CLASS 10:CLASS
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom
21:Atom
22:Atom 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS 30:CLASS
31:CLASS
34:CLASS 35:CLASS 36:CLASS 37:Atom 38:Atom 39:Atom 40:Atom 41:Atom 42:Atom
43:CLASS 44:CLASS
45:CLASS 46:CLASS 47:CLASS

=>

Uploading C:\Program Files\Stnexp\Queries\10 series\10576703\CORRECTION7.str



10/576,703 REACTION SEARCH

chain nodes :

9 10 23 24 25 26 27 28 29 30 31 34 35 36 43 44 45 46 47

ring nodes :

1 2 3 4 5 6 7 8 11 12 13 14 15 16 17 18 19 20 21 22 37 38 39
40 41 42

chain bonds :

2-9 4-17 6-10 8-14 11-36 12-29 13-28 15-27 16-30 18-24 19-23 20-31 21-25
22-26 31-34 34-35 36-37 38-43 39-44 40-45 41-46 42-47

ring bonds :

1-2 1-5 1-8 2-3 3-4 4-5 5-6 6-7 7-8 11-12 11-16 12-13 13-14 14-15 15-16
17-18 17-22 18-19 19-20 20-21 21-22 37-38 37-42 38-39 39-40 40-41 41-42

exact/norm bonds :

1-2 1-5 1-8 2-3 2-9 3-4 4-5 5-6 6-7 6-10 7-8 11-36 20-31 36-37

exact bonds :

4-17 8-14 12-29 13-28 15-27 16-30 18-24 19-23 21-25 22-26 31-34 34-35
38-43 39-44 40-45 41-46 42-47

normalized bonds :

11-12 11-16 12-13 13-14 14-15 15-16 17-18 17-22 18-19 19-20 20-21 21-22
37-38 37-42 38-39 39-40 40-41 41-42

G1:X,CH3,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:CLASS 10:CLASS
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom
21:Atom
22:Atom 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS 30:CLASS
31:CLASS
34:CLASS 35:CLASS 36:CLASS 37:Atom 38:Atom 39:Atom 40:Atom 41:Atom 42:Atom
43:CLASS 44:CLASS
45:CLASS 46:CLASS 47:CLASS

L17 STRUCTURE UPLOADED

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FULL SEARCH INITIATED 11:04:29 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 67 TO ITERATE

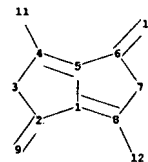
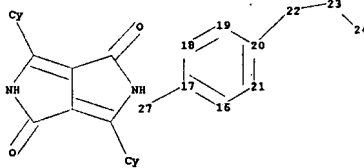
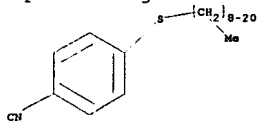
100.0% PROCESSED 67 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

L18 1 SEA SSS FUL L17

Uploading C:\Program Files\Stnexp\Queries\10 series\10576703\RXN22222222222222222222.str



chain nodes :

9 10 11 12 22 23 24 27

ring nodes :

1 2 3 4 5 6 7 8 16 17 18 19 20 21

chain bonds :

2-9 4-11 6-10 8-12 17-27 20-22 22-23 23-24

ring bonds :

1-2 1-5 1-8 2-3 3-4 4-5 5-6 6-7 7-8 16-17 16-21 17-18 18-19 19-20 20-21

exact/norm bonds :

1-2 1-5 1-8 2-3 2-9 3-4 4-5 4-11 5-6 6-7 6-10 7-8 8-12 20-22

exact bonds :

17-27 22-23 23-24

normalized bonds :

16-17 16-21 17-18 18-19 19-20 20-21

G1:H,CH3,CF3,CN,X

G2:C,S,N

G3:Cb,Ak

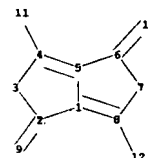
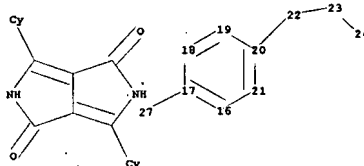
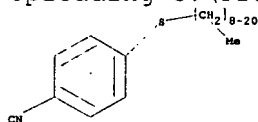
Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:CLASS 10:CLASS
 11:Atom 12:Atom 16:CLASS 17:Atom 18:CLASS 19:Atom 20:CLASS 21:Atom 22:CLASS
 23:CLASS 24:CLASS
 27:CLASS

L1 STRUCTURE UPLOADED

=>

Uploading C:\Program Files\Stnexp\Queries\10 series\10576703\RXN22.str



10/576,703 REACTION SEARCH

chain nodes :
9 10 11 12 22 23 24 27
ring nodes :
1 2 3 4 5 6 7 8 16 17 18 19 20 21
chain bonds :
2-9 4-11 6-10 8-12 17-27 20-22 22-23 23-24
ring bonds :
1-2 1-5 1-8 2-3 3-4 4-5 5-6 6-7 7-8 16-17 16-21 17-18 18-19 19-20 20-21

exact/norm bonds :
1-2 1-5 1-8 2-3 2-9 3-4 4-5 4-11 5-6 6-7 6-10 7-8 8-12 20-22
exact bonds :
17-27 22-23 23-24
normalized bonds :
16-17 16-21 17-18 18-19 19-20 20-21

G1:H,CH3,CF3,CN,X.

G2:C,S,N

G3:Cb,Ak

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:CLASS 10:CLASS
11:Atom 12:Atom 16:CLASS 17:Atom 18:CLASS 19:Atom 20:CLASS 21:Atom 22:CLASS
23:CLASS 24:CLASS
27:CLASS
fragments assigned product role:
containing 1
fragments assigned reactant/reagent role:
containing 16

L2 STRUCTURE UPLOADED

=> s 12 full

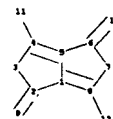
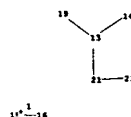
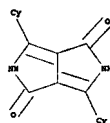
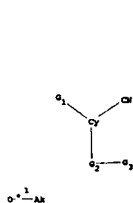
FULL SEARCH INITIATED 13:56:35 FILE 'CASREACT'

SCREENING COMPLETE - 0 REACTIONS TO VERIFY FROM 0 DOCUMENTS

100.0% DONE 0 VERIFIED 0 HIT RXNS 0 DOCS
SEARCH TIME: 00.00.01

L3 0 SEA SSS FUL L2 (0 REACTIONS)

=>
Uploading C:\Program Files\Stnexp\Queries\10 series\10576703\RXN111111.str



chain nodes :

9 10 11 12 13 14 15 16 19 21 23

ring nodes :

1 2 3 4 5 6 7 8

chain bonds :

2-9 4-11 6-10 8-12 13-14 13-19 13-21 15-16 21-23

ring bonds :

1-2 1-5 1-8 2-3 3-4 4-5 5-6 6-7 7-8

exact/norm bonds :

1-2 1-5 1-8 2-3 2-9 3-4 4-5 4-11 5-6 6-7 6-10 7-8 8-12 13-14 13-19.
13-21 15-16 21-23

G1:H,CH3,CF3,CN,X, [*1]

G2:C,S,N

G3:Cb,Ak

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:CLASS 10:CLASS

11:Atom 12:Atom 13:Atom 14:CLASS 15:CLASS 16:CLASS 19:CLASS 21:CLASS 23:CLASS

fragments assigned product role:

containing 1

fragments assigned reactant/reagent role:

containing 13

L4 STRUCTURE UPLOADED

10/576,703 REACTION SEARCH

=> d

L4 HAS NO ANSWERS

L4 STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE. ***

Structure attributes must be viewed using STN Express query preparation.

=> s l4 full

FULL SEARCH INITIATED 13:57:03 FILE 'CASREACT'

SCREENING COMPLETE - 2423 REACTIONS TO VERIFY FROM 251 DOCUMENTS

100.0% DONE 2423 VERIFIED 5 HIT RXNS 3 DOCS

SEARCH TIME: 00.00.03

L5 3 SEA SSS FUL L4 (5 REACTIONS)

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	111	548/453.ccls. and pigment	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/07/17 09:57
L3	77	L2 and diketopyrrolopyrrole	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/07/17 09:57